

Express Mail No.: EL272344615US

Date of Deposit: February 14, 2001

PATENT  
10508.144  
00CXT0667N-2

## SELECTION OF CODING PARAMETERS BASED ON SPECTRAL CONTENT OF A SPEECH SIGNAL

### INVENTORS

5

Yang Gao  
Huan-Yu Su

### BACKGROUND OF THE INVENTION

#### 1. Cross Reference to Related Applications.

60233044 This application claims the benefit of provisional application serial number  
10 \_\_\_\_\_, entitled SIGNAL PROCESSING SYSTEM FOR FILTERING  
SPECTRAL CONTENT OF A SIGNAL FOR SPEECH CODING, filed on  
September 15, 2000 under 35 U.S.C. 119(e).

#### 2. Technical Field.

15 This invention relates to selection of coding parameters based on spectral  
content or tilt of a speech signal.

#### 3. Related Art.

20 An analog portion of a communications network may detract from the desired  
audio characteristics of vocoded speech. In a public switched telephone network, a  
trunk between exchanges or a local loop from a local office to a fixed subscriber  
station may use analog representations of the speech signal. For example, a  
telephone station typically transmits an analog modulated signal with an  
approximately 3.4 KHz bandwidth to the local office over the local loop. The local  
office may include a channel bank that converts the analog signal to a digital pulse-  
code-modulated signal (e.g., DS0). An encoder in a base station may subsequently